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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,757		04/14/2004	Yasufumi Kaneda	59150-8010.US00	7091
22918	7590	07/24/2006		EXAMINER	
PERKINS		LP	WHITEMAN, BRIAN A		
P.O. BOX 2168 MENLO PARK, CA 94026				ART UNIT	PAPER NUMBER
				1635	
				DATE MAILED: 07/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/824,757	KANEDA, YASUFUMI					
Office Action Summary	Examiner	Art Unit					
	Brian Whiteman	1635					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status		•					
1) Responsive to communication(s) filed on 01 Ma	ay 2006.						
,	action is non-final.						
,—							
closed in accordance with the practice under E							
Disposition of Claims							
4) Claim(s) <u>1,2,4-6,8,9,11-14,16,18,23,25,26,30</u> is/are pending in the application.							
4a) Of the above claim(s) 4,25 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2,5,6,8,9,11-14,16,18,23,26 and 30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· =						
Paper No(s)/Mail Date <u>5/1/06,1/26/06</u> .	6) Other:						

Application/Control Number: 10/824,757

Art Unit: 1635

DETAILED ACTION

Non-Final Rejection

Claims 1, 2, 4-6, 8, 9, 11-14, 16, 18, 23, 25, 26, and 30 are pending.

Applicant's traversal, the amendment to the specification, the cancellation of claims 3, 7, 20-22, 24, 27-29, 31, and 32, the amendment to claims 1, 5, 13, 14, 16, and 18 filed on 5/1/06 is acknowledged and considered.

Election/Restrictions

Claims 4 and 25 remain withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 1/24/06.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 2, 5, 6, 8, 9, 11, 12, 13, 14, 16, 18, 23, 25, 26, and 30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 2, 5, 6, 8, 9, 11, 12, 13, 14, 16, 18, 223, 25, 26, and 30 recite the limitation "the virus is inactivated" in line 2 of claim 1. There is insufficient antecedent basis for this limitation in the claims. It is not defined if the limitation is referring to the virus envelope or the gene transfer vector.

Art Unit: 1635

Claims 1 and claims dependent therefrom are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: inactivating the genome of a herpes virus. The skilled artisan understands that you can inactivate a virus by deleting at least part of the genome. But, it is unclear to the skilled artisan how to inactivate the genome of the virus.

Claims 2, 5, 6, 8, 9, 13, 14, 16, 18, 23, 26, and 30 recite the limitation "the virus". There is insufficient antecedent basis for this limitation in the claim. This lack of antecedent basis makes it unclear in determining the structure of the claimed invention. Does the claim define adding an exogenous gene to an existing viral particle or making a viral genome that comprises an exogenous gene and then packaging the genome to form a virus?

Claim 9 recites the limitation "detergent is octylglucosidase" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claims 18 and 30 rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: steps for preparing the gene transfer vector.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The limitation "for introducing a gene into animal in vivo tissue" in claims 11 and 12 does not have patentable weight over the prior art. See MPEP 2111.

The limitation "kit for screening gene libraries" in claims 14 and 26 does not have patentable weight over the prior art. See MPEP 2111.

The limitation "pharmaceutical" in claims 13 and 25 does not have patentable weight over the prior art. See MPEP 2111.

Claims 1 and claims dependent therefrom (claims 2, 5, 6, 8, 9, 11, 12, 13, 14, 23, and 26 read on a virus comprising a viral vector comprising an exogenous gene.

Claims 5, 6, and 8-9 are directed to a product by process. Thus, if the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). The product in claims 5, 6, 8 and 9 read on a replication defective herpes virus comprising a gene transfer vector comprising an exogenous gene.

Claims 1, 2, 5, 6, 8, 9, 11, 12, 13, 14, 23, and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Epstein et al. (US 6,183,752). Epstein teaches a replication defective herpes virus comprising an expression vector comprising an exogenous DNA (column 1).

Application/Control Number: 10/824,757

Art Unit: 1635

Applicant's arguments, see page 8, filed 5/1/06, with respect to the rejection(s) of claim(s) 1-3, 5, 11-14, 16, 18, 23, 24, 26, 27, 30 and 31 under 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the amendment to claim 1.

Claims 1, 2, 5, 6, 8, 9, 11, 12, 13, 14, 18, 23, 26, and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Altieri (US 6509162). Altieri teaches producing a replication defective herpes virus comprising a transgene and delivering to an ex vivo cell (column 19 and 20).

Applicant's arguments, see page 8, filed 5/1/06, with respect to the rejection(s) of claim(s) 1-3, 5, 11-14, 16, 18, 23, 24, 26, 27, 30 and 31 under 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the amendment to claim 1.

Claims 1, 2, 5, 6, 8, 9, 11, 12, 13, 14, 18, 23, 26, and 30 are rejected under 35

U.S.C. 102(e) as being anticipated by Fong et al. (US 6051428). Fong teaches a replication defective herpes virus comprising a transgene (column 1). Fong teaches administering Triton X
100 to an isolated cell infected with the replication defective herpes virus (column 24).

Response to Arguments

The Declaration under 37 CFR 1.132 filed 5/23/06 is sufficient to overcome the rejection of claims 1, 2, 5-7, 11-5, 18, 20, 23, 26, and 30 based upon 102(e) over Hoon et al. (US

Application/Control Number: 10/824,757

Art Unit: 1635

6432,925). The Declaration shows that Mr. Kaneda conceived or invented the subject matter disclosed in '925.

The Declaration under 37 CFR 1.132 filed 5/1/06 is sufficient to overcome the rejection of claims 1, 2, 5-7, 11-5, 18, 20, 23, 26, and 30 based upon 102(e) over Hoon et al. (US 672375). The Declaration shows that Mr. Kaneda conceived or invented the subject matter disclosed in '375.

Applicant's arguments, see terminal disclaimer, filed 5/1/06, with respect to provisional obviousness double patenting and obviousness double patenting rejection have been fully considered and are persuasive. The rejection of 1, 2, 5-9, 11-14, 16, 18, 20-23, 26, 29 and 30 has been withdrawn because the cancellation of claims 7, 20-22, and 29 and the filing of a terminal disclaimer over the applications 11,126,770 and 10/485,752 and US patent '923.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Whiteman whose telephone number is (571) 272-0764. The examiner can normally be reached on Monday through Friday from 7:00 to 4:00 (Eastern Standard Time), with alternating Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras, SPE – Art Unit 1635, can be reached at (571) 272-4517.

Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Fax Center number is (571) 273-8300.

Application/Control Number: 10/824,757 Page 7

Art Unit: 1635

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Brian Whiteman

Brilles

BRIAN WHITEMAN PATENT EXAMINER